



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory



QC ABSTRACT

Name of Work: Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:3:6	8.72 Cum	1	1	Pass
2	Steel	0.95 Tonne	1	1	Pass
3	M20	7.91 Cum	2	2	Pass
4	CC Blocks -6'	59.10 Sqm	1	1	Pass
5	White Glazed Tiles	41.12 Sqm	1	1	Pass
6	Ceramic Tiles	16.00 Sqm	1	1	Pass
7	CPVC Pipes-20mm	60.00 Mtr	1	1	Pass
8	PVC Pipes-20mm	40.00 Mtr	1	1	Pass
9	Bricks	-	1	1	Pass

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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ಒಟ್ಟು 100 ಕ್ಕೆ ಹೆಚ್ಚಿನ

Signature

For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth

Authorised Signatory



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An ISO 9001-2015 Certified Company
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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date: 07.09.2022

TEST REPORT

CLIENT	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. Pavan Kumar N, Contractor, Bangalore.
NAME OF THE WORK	:	Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		August- 2022
DATE OF TESTING		05.09.2022 to 07.09.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00 %	-

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date : 07.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Pavan Kumar N, Contractor, Bangalore.
Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 07.09.2022
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	8.70	8.70	91.3	90-100
2.36	132	13.20	21.90	78.1	75-100
1.18	187	18.70	40.60	59.4	55-90
600 Micron	172	17.20	57.80	42.2	35-59
300 Micron	249	24.90	82.70	17.3	8-30
150 Micron	112	11.20	93.90	6.1	0-10

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Subkathu.

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date :07.09.2022

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Pavan Kumar N, Contractor, Bangalore.
Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 07.09.2022
Material : Sand - Masonry Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	42	4.20	5.70	94.3	70-100
600 Micron	93	9.30	15.00	85.0	40-100
300 Micron	249	24.90	39.90	60.1	5-70
150 Micron	485	48.50	88.40	11.6	0-15

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Job No.: CACE/BBMP/SN/W No.41/2022-23

Date :07.09.2022

TEST REPORT ON FINE AGGREGATES (SAND) IS 1542-1992

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Pavan Kumar N, Contractor, Bangalore.
Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 07.09.2022
Material : Plastering Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	24	2.40	2.40	97.6	95-100
2.36	37	3.70	6.10	93.9	95-100
1.18	59	5.90	12.00	88.0	90-100
600 Micron	87	8.70	20.70	79.3	80-100
300 Micron	251	25.10	45.80	54.2	20-65
150 Micron	505	50.50	96.30	3.7	0-15

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date : 07.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Pavan Kumar N, Contractor, Bangalore.
Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 07.09.2022
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	159	3.2	3.2	96.8	95-100
10	2894	57.9	61.1	38.9	25-55
4.75	1623	32.5	93.5	6.5	0-10

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(Signature)

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date : 07.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Pavan Kumar N, Contractor, Bangalore.
Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 07.09.2022
IS Code : IS 383:2016
Material : IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	171	1.14	1.14	98.86	95-100
20	8214	54.76	55.90	44.10	30-70
10	3108	20.72	76.62	23.38	10-35
4.75	2879	19.19	95.81	4.19	0-5

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date : 08.09.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

AGENCY : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm," Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 08.09.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	557	642	1.15	14
2	TMT	10	0.622	563	655	1.16	15
3	TMT	12	0.892	575	667	1.16	14.5

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Job No.:CACE/BBMP/PKN/W No.14/2022-23

Date : 13.09.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of the Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Date of Testing : 13.09.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.5	245.9	4.10	2041.67	Minimum required Compressive Strength of Individual Units 4.00N/mm ²
2	Block 2	24.9	248.7	4.15	2075.00	
3	Block 3	25.2	251.3	4.19	2100.00	
4	Block 4	25.7	254.6	4.24	2141.67	

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date: 16.09.2022

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks- Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1: Determination of Compressive Strength, (Cl 4.2.3)
Part 2: Determination of Water Absorption, (Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test : 12.09.2022 to 16.09.2022

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm ²)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.7	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	6.1	
3	6.4	
4	6.2	
5	5.8	
Average of 5 bricks	6.0	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.2	The water Absorption of bricks shall not be more than 20% by weight upto class 5.0 and 15% by weight for higher classes.
2	10.9	
3	11.6	
4	11.4	
5	10.5	
Average of 5 bricks	10.9	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate' upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4535	4520 to 4680 mm
2	Width	2190	2160 to 2240 mm
3	Height	1385	1360 to 1440 mm

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Signature

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Job No.:CACE/BBMP/PKN/W No.14/2022-23

Date :19.09.2022

TEST REPORT ON PVC PIPE

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency :Sri. Pavan Kumar N, Contractor, Bangalore.

Name of Work :Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sample Supplied by: AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 110mm dia

Date of Testing 19.09.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	110	110 mm
2	Mean Outside Diameter (mm)	110.4	Min 110 mm Max 110.4 mm
3	Outside Diameter at Any Point (mm)	110.6	Min 110.2 mm Max 110.8 mm

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date: 19.09.2022

TEST REPORT ON CPVC PIPE

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sample Supplied by: AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 19.09.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	21.2	21.2 mm
2	Mean Outside Diameter (mm)	21.2	Min 21.1 mm Max 21.3 mm
3	Outside Diameter at Any Point (mm)	21.3	Min 21 mm Max 21.4 mm
4	Density	1475 Kg/m ³	1450 Kg/m ³ & 1650 Kg/m ³

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date : 07.11.2022

TEST REPORT ON CERAMIC TILES

*Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

*Contractor : Sri. Pavan Kumar N, Contractor, Bangalore.

*Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 03.11.2022 to 07.11.2022

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	48.5	48.28	Average 47, individual minimum 44 N/mm ²
2	300x300x5.9	48.1		
3	300x300x5.8	47.9		
4	300x300x5.8	48.3		
5	300x300x5.7	48.6		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.9	No visible effect	
3	300x300x5.8	No visible effect	
4	300x300x5.8	No visible effect	
5	300x300x5.7	No visible effect	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sukanth

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.9	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x5.9	Stain Removed by Water	
3	300x300x5.8	Stain Removed by Water	
4	300x300x5.8	Stain Removed by Water	
5	300x300x5.7	Stain Removed by Water	

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[Signature]

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date: 08.11.2022

TEST REPORT ON WHITE GLAZED TILES

*Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

*Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

*Name of Work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing White Glazed Tiles
IS 15622 - 2006 - Specification of White Glazed Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 04.11.2022 to 08.11.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	48.3	48.22	Average 47, individual minimum 44 N/mm ²
2	48.7		
3	48.6		
4	47.9		
5	47.6		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

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III.

STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

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Date: 19.09.2022

Job No.: CACE/BBMP/PKN/W No.14/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of the work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.09.2022	19.09.2022	8.132	341.7	15.19
2	12.09.2022	19.09.2022	8.145	346.9	15.42
3	12.09.2022	19.09.2022	8.156	353.5	15.71

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Job No.: CACE/BBMP/PKN/W No.14/2022-23

Date: 10.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of the work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.09.2022	10.10.2022	8.178	507.2	22.54
2	12.09.2022	10.10.2022	8.162	512.8	22.79
3	12.09.2022	10.10.2022	8.154	499.5	22.20

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Sri. K. K. K.

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Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Pavan Kumar N, Contractor, Bangalore.

Name of the work : Developments Works in MEI Layout Park in ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.09.2022	19.09.2022	8.163	338.7	15.05
2	12.09.2022	19.09.2022	8.142	342.5	15.22
3	12.09.2022	19.09.2022	8.132	356.9	15.86

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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.09.2022	10.10.2022	8.168	498.7	22.16
2	12.09.2022	10.10.2022	8.146	505.2	22.45
3	12.09.2022	10.10.2022	8.152	516.4	22.95

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For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth

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